

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 0916741546B  
Source: JFW16  
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IFW16

## RAW SEQUENCE LISTING

DATE: 05/15/2006

PATENT APPLICATION: US/09/674,546B

TIME: 15:42:25

Input Set : E:\SEQLIST223002101200.txt  
 Output Set: N:\CRF4\05152006\I674546B.raw

3 <110> APPLICANT: Institute for Genomic Research  
 4 Chiron Corporation  
 6 <120> TITLE OF INVENTION: Neisseria Meningitidis Antigens and Compositions  
 8 <130> FILE REFERENCE: CHIR-0334  
 10 <140> CURRENT APPLICATION NUMBER: 09/674,546B  
 C--> 11 <141> CURRENT FILING DATE: 2002-11-04 (Pg. 6-15)  
 13 <160> NUMBER OF SEQ ID NOS: 3265  
 15 <170> SOFTWARE: PatentIn version 3.2  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 396  
 19 <212> TYPE: DNA  
 20 <213> ORGANISM: Neisseria gonorrhoeae  
 22 <400> SEQUENCE: 1  
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 25 tgcgcccggc tgggtctggcgt catctgccag acgctccgcga aacgcgatac tttaaacggc 120  
 27 tcgggtacgc atactttacc ggtttggcg attttccgcga ggtcggtcg cagcaaatcg 180  
 29 acaatcatca cgtttccggc gccggtttttc gggtcgggtt gtaactcggc ggcgcggcgt 240  
 31 tcgtcttgc cgtcgccaa aatcggcgcg gtgccttca tcgggtcggt gctgatggtg 300  
 33 ccgtctgaag cgtatgttgcgaa gaaagatgcg ggcgagaaaac acagcgtccca cgcgcattgc 360  
 35 ccggcttcat cgggcagggtg ggacaatacg gcatacg 396  
 38 <210> SEQ ID NO: 2  
 39 <211> LENGTH: 131  
 40 <212> TYPE: PRT  
 41 <213> ORGANISM: Neisseria gonorrhoeae  
 43 <400> SEQUENCE: 2  
 45 Met Leu Pro Gln Gly Lys Ala Ala Arg Arg Val Ser Ala Asn Glu Val  
 46 1 5 10 15  
 49 Ser Gly Arg Ala Cys Ala Arg Met Val Leu Val Ile Cys Gln Thr Leu  
 50 20 25 30  
 53 Pro Lys Arg Asp Thr Leu Asn Gly Ser Gly Thr His Thr Leu Pro Val  
 54 35 40 45  
 57 Trp Ala Ile Leu Pro Arg Ser Leu Arg Ser Lys Ser Thr Ile Ile Thr  
 58 50 55 60  
 61 Phe Ser Ala Arg Phe Phe Gly Ser Val Cys Asn Ser Ala Ala Arg Arg  
 62 65 70 75 80  
 65 Ser Ser Cys Pro Ser Pro Lys Ile Gly Ala Val Pro Phe Ile Gly Ser  
 66 85 90 95  
 69 Val Leu Met Val Pro Ser Glu Ala Met Leu Arg Lys Ser Ser Gly Glu  
 70 100 105 110  
 73 Lys His Ser Val His Ala Asp Cys Pro Ala Ser Ser Gly Arg Trp Asp  
 74 115 120 125  
 77 Asn Thr Ala  
 78 130

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81 <210> SEQ ID NO: 3  
 82 <211> LENGTH: 395  
 83 <212> TYPE: DNA  
 84 <213> ORGANISM: Neisseria meningitidis  
 86 <400> SEQUENCE: 3  
 87 atgctgccgc agggaaaggc ggcgcggagg atgtcgccga acgaggtgtg cggcassctt 60  
 89 ssgcttggay ggtgctggtc atctgcacaa cgctgccgaa acgcgataact ttaaacgggtt 120  
 91 cgggtacgcataactgtccg ytttggcgta ttttgcgag atcggtacgc agcaaatcga 180  
 93 caatcatcac gtttccggcg cggttttcg ggtctgcttgc caactcggcg ggcggcggtt 240  
 95 cgtcttgcgc gtcgccaaa atcggcgcgg tgccttcat cggttcggtt ctgatgggtc 300  
 97 cgtccgaacc gatttgagg aagagttcg gcgagaaaaca cagcgtccac gcggattgcc 360  
 99 cctccgcata cggcaggtgg gacaagacgg catag 395  
 102 <210> SEQ ID NO: 4  
 103 <211> LENGTH: 131  
 104 <212> TYPE: PRT  
 105 <213> ORGANISM: Neisseria meningitidis  
 108 <220> FEATURE:  
 109 <221> NAME/KEY: misc\_feature  
 110 <222> LOCATION: (19)..(19)  
 111 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 113 <220> FEATURE:  
 114 <221> NAME/KEY: misc\_feature  
 115 <222> LOCATION: (21)..(21)  
 116 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 118 <220> FEATURE:  
 119 <221> NAME/KEY: misc\_feature  
 120 <222> LOCATION: (24)..(24)  
 121 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 123 <400> SEQUENCE: 4  
 125 Met Leu Pro Gln Gly Lys Ala Ala Arg Arg Met Ser Ala Asn Glu Val  
 126 1 5 10 15  
 W--> 129 Cys Gly Xaa Leu Xaa Ala Trp Xaa Val Leu Val Ile Cys Gln Thr Leu  
 130 20 25 30  
 133 Pro Lys Arg Asp Thr Leu Asn Gly Ser Gly Thr His Thr Val Pro Val  
 134 35 40 45  
 137 Trp Ala Ile Leu Pro Arg Ser Leu Arg Ser Lys Ser Thr Ile Ile Thr  
 138 50 55 60  
 141 Phe Ser Ala Arg Phe Phe Gly Ser Ala Cys Asn Ser Ala Ala Arg Arg  
 142 65 70 75 80  
 145 Ser Ser Cys Pro Ser Pro Lys Ile Gly Ala Val Pro Phe Ile Gly Ser  
 146 85 90 95  
 149 Val Leu Met Val Pro Ser Glu Pro Ile Leu Arg Lys Ser Ser Gly Glu  
 150 100 105 110  
 153 Lys His Ser Val His Ala Asp Cys Pro Ser Ala Ser Gly Arg Trp Asp  
 154 115 120 125  
 157 Lys Thr Ala  
 158 130  
 161 <210> SEQ ID NO: 5  
 162 <211> LENGTH: 396

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Input Set : E:\SEQLIST223002101200.txt  
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163 <212> TYPE: DNA  
 164 <213> ORGANISM: *Neisseria meningitidis*  
 166 <400> SEQUENCE: 5

167 atgctgccgc	agggaaaggc	ggcgccggagg	atgtcgccga	acgagggttg	cgccaaggct	60
169 tgggcttgg	ttgtgttgtt	catctgccaa	acgctgccga	aacgcgatac	ttaaacgggt	120
171 tcgggtacgc	atactgtgcc	gttttggcg	atttgccga	ggtcgttacg	cagcaaatcg	180
173 acaatcatca	cgtttcggc	gggggttttc	gggttgtgtt	gcaactccgc	ggcgccggcg	240
175 tcgtcttgc	cgtccccaa	aatccggcg	gtgccttca	tcggttcggt	gctgatggtg	300
177 ccgtccgaac	cgatttgag	gaagagttcg	ggcgagaaac	acagcgtcca	cgccgattgc	360
179 cttgtgcat	cggcaggtg	ggacaaaacg	gcatacg			396

182 <210> SEQ ID NO: 6  
 183 <211> LENGTH: 131  
 184 <212> TYPE: PRT  
 185 <213> ORGANISM: *Neisseria meningitidis*  
 187 <400> SEQUENCE: 6

189 Met	Leu	Pro	Gln	Gly	Lys	Ala	Ala	Arg	Arg	Met	Ser	Ala	Asn	Glu	Val
190 1						5				10				15	
193 Cys	Gly	Lys	Ala	Trp	Ala	Trp	Met	Val	Leu	Val	Ile	Cys	Gln	Thr	Leu
194						20				25				30	
197 Pro	Lys	Arg	Asp	Thr	Leu	Asn	Gly	Ser	Gly	Thr	His	Thr	Val	Pro	Val
198						35				40				45	
201 Trp	Ala	Ile	Leu	Pro	Arg	Ser	Leu	Arg	Ser	Lys	Ser	Thr	Ile	Ile	Thr
202						50				55				60	
205 Phe	Ser	Ala	Arg	Phe	Phe	Gly	Ser	Ala	Cys	Asn	Ser	Ala	Ala	Arg	Arg
206						65				70				80	
209 Ser	Ser	Cys	Pro	Ser	Pro	Lys	Ile	Gly	Ala	Val	Pro	Phe	Ile	Gly	Ser
210						85				90				95	
213 Val	Leu	Met	Val	Pro	Ser	Glu	Pro	Ile	Leu	Arg	Lys	Ser	Ser	Gly	Glu
214						100				105				110	
217 Lys	His	Ser	Val	His	Ala	Asp	Cys	Pro	Cys	Ala	Ser	Gly	Arg	Trp	Asp
218						115				120				125	
221 Lys	Thr	Ala													
222						130									
225 <210>	SEQ ID NO:	7													
226 <211>	LENGTH:	663													
227 <212>	TYPE:	DNA													
228 <213>	ORGANISM:	<i>Neisseria gonorrhoeae</i>													
231 <220>	FEATURE:														
232 <221>	NAME/KEY:	misc_feature													
233 <222>	LOCATION:	(529)..(529)													
234 <223>	OTHER INFORMATION:	n is a, c, g, or t													
236 <400>	SEQUENCE:	7													
237 atggcgtat	tcgtggctga	aggcgattc	ggtcgcgt	ttttgggtca	cttggattg	60									
239 ctcttcgg	tcgggttgcgtt	ttgtgttgtt	gtcaactcggt	tttttatacg	ttgccgcgtc	120									
241 gaaggcctt	ccttgcgtt	gggttttgtt	tttgcccg	agcggttcgt	cgggtttgcgt	180									
243 gatgtcgat	tggcagttagc	cgttgggtt	tttaatcagg	tagtcctgt	ggtattcc	240									
245 ggcgtcgat	aagttttca	gcgggttcgtt	ttcaacaacg	aggggcagtt	ggtat	300									
247 ctgctcgat	ttgaggggcgg	cggcgatgac	ggcttttcg	gcggggtcgg	tgtat	360									
249 ggcgtcgat	tattgcgtgc	cgggtgtcg	accctgttg	ttgaggctgg	tcggatcaac	420									

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251 gacgcggaaa taatattgca ggatgtcgac caggctgagt ttgtcggcat cgttaggtcac 480  
 W--> 253 tttgacggtc tcggcatgac ccgtatggcg gtaggacact tcttcgtanc tcgggtttc 540  
 255 cgtgttgcgc ttggcgttac cggataccgc gtcaaccacg ccgtcgatgc gttggaaata 600  
 257 ggcttccaag ccccaaaagc agccgcccgc gaagtaaatg gtgcccgtgt tcattgattgc 660  
 259 tga 663  
 262 <210> SEQ ID NO: 8  
 263 <211> LENGTH: 219  
 264 <212> TYPE: PRT  
 265 <213> ORGANISM: Neisseria gonorrhoeae  
 267 <400> SEQUENCE: 8  
 269 Met Val Val Phe Val Ala Glu Gly Val Phe Gly Arg Ala Val Leu Gly  
 270 1 5 10 15  
 273 His Leu Val Leu Leu Phe Gly Gln Gly Ala Phe Glu Phe Gly Val Thr  
 274 20 25 30  
 277 Arg Phe Phe Ile Arg Cys Arg Val Glu Ala Phe Ala Leu Arg Cys Gly  
 278 35 40 45  
 281 Phe Gly Phe Ala Arg Gln Arg Phe Val Gly Phe Ala Asp Val Asp Val  
 282 50 55 60  
 285 Ala Val Ala Val Gly Val Phe Asn Gln Val Val Leu Met Val Phe Leu  
 286 65 70 75 80  
 289 Gly Val Val Glu Val Phe Gln Arg Phe Val Phe Asn Asn Glu Gly Gln  
 290 85 90 95  
 293 Leu Val Phe Leu Leu Ala Phe Glu Gly Gly Asp Asp Gly Phe  
 294 100 105 110  
 297 Phe Gly Gly Val Gly Val Val His Ala Ala Ala Val Leu Arg Ala Gly  
 298 115 120 125  
 301 Val Val Thr Leu Phe Val Glu Ala Gly Arg Ile Asn Asp Ala Glu Ile  
 302 130 135 140  
 305 Ile Leu Gln Asp Val Val Gln Ala Glu Phe Val Gly Ile Val Gly His  
 306 145 150 155 160  
 309 Phe Asp Gly Leu Gly Met Thr Arg Met Ala Val Gly His Phe Phe Val  
 310 165 170 175  
 313 Arg Val Phe Arg Val Ala Val Gly Val Thr Gly Tyr Arg Val Asn His  
 314 180 185 190  
 317 Ala Val Asp Ala Leu Glu Ile Gly Phe Gln Ala Pro Lys Ala Ala Ala  
 318 195 200 205  
 321 Gly Glu Val Asn Gly Ala Arg Val His Asp Cys  
 322 210 215  
 325 <210> SEQ ID NO: 9  
 326 <211> LENGTH: 662  
 327 <212> TYPE: DNA  
 328 <213> ORGANISM: Neisseria meningitidis  
 330 <400> SEQUENCE: 9  
 331 atggcgtat tcgtggctga aggcatattc ggtcgcgctg ttttggtaa cttgstattg 60  
 333 ctcttcggtc agggtgcgtt tgagttcgcc gtcactcggt tttttatacg ttggccgcgtc 120  
 335 gaagcctttg ctttgcgggg cggctttgggt tttgcccggc agcggttcgt cagckttgcg 180  
 337 gatgtcgatg tggcagtagc cgttgggggtt ttaatcaag tagtcctgat ggtattcctc 240  
 339 ggcatcgtag aagttttca gcccgtcggt ttcaacaacg agggcagtt ggtatttttg 300  
 341 ctgctcgctg ttgagggcgk cggcgatgac ggcttttcg kcggggcgg tggtagtacac 360

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Input Set : E:\SEQLIST223002101200.txt  
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343 gccgctgcgg tattgcgtac cgggtgcgtt gccctgtttg ttgaggctgg tcggatcaac 420  
 345 gacgcgaaag aaatattgca ggatgtcgctc taggctgagt ttgtcggcat cgttaggtcac 480  
 347 tttgacgggt tcggcggtgc cccgtatggcg gtaggacacg tcttcatacg tcggattttt 540  
 349 cgtgttgcgc ttggcgtagc cggataccgc gtcaccacg ccgtcgatgc gttggaaata 600  
 351 ggcttccaag cccccagaagc agcgcggcg aggtaaatgg tgccgcgtt catgattttt 660  
 353 ga 662  
 356 <210> SEQ\_ID NO: 10  
 357 <211> LENGTH: 219  
 358 <212> TYPE: PRT  
 359 <213> ORGANISM: Neisseria meningitidis  
 362 <220> FEATURE:  
 363 <221> NAME/KEY: misc\_feature  
 364 <222> LOCATION: (19)..(19)  
 365 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 367 <220> FEATURE:  
 368 <221> NAME/KEY: misc\_feature  
 369 <222> LOCATION: (59)..(59)  
 370 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 372 <220> FEATURE:  
 373 <221> NAME/KEY: misc\_feature  
 374 <222> LOCATION: (107)..(107)  
 375 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 377 <220> FEATURE:  
 378 <221> NAME/KEY: misc\_feature  
 379 <222> LOCATION: (114)..(114)  
 380 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
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 383 <221> NAME/KEY: misc\_feature  
 384 <222> LOCATION: (208)..(208)  
 385 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 387 <400> SEQUENCE: 10  
 389 Met Val Val Phe Val Ala Glu Gly Ile Phe Gly Arg Ala Val Leu Gly  
 390 1 5 10 15  
 W--> 393 Asn Leu Xaa Leu Leu Phe Gly Gln Gly Ala Phe Glu Phe Gly Val Thr  
 394 20 25 30  
 397 Arg Phe Phe Ile Arg Cys Arg Val Glu Ala Phe Ala Leu Arg Gly Gly  
 398 35 40 45  
 W--> 401 Leu Gly Phe Ala Arg Gln Arg Phe Val Ser Xaa Ala Asp Val Asp Val  
 402 50 55 60  
 405 Ala Val Ala Val Gly Val Phe Asn Gln Val Val Leu Met Val Phe Leu  
 406 65 70 75 80  
 409 Gly Ile Val Glu Val Phe Gln Arg Leu Val Phe Asn Asn Glu Gly Gln  
 410 85 90 95  
 W--> 413 Leu Val Phe Leu Leu Ala Phe Glu Gly Xaa Gly Asp Asp Gly Phe  
 414 100 105 110  
 W--> 417 Phe Xaa Gly Val Gly Val Val His Ala Ala Ala Val Leu Arg Thr Gly  
 418 115 120 125  
 421 Val Val Ala Leu Phe Val Glu Ala Gly Arg Ile Asn Asp Ala Glu Glu  
 422 130 135 140

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/15/2006  
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Input Set : E:\SEQLIST223002101200.txt  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 19, 21, 24  
Seq#:7; N Pos. 529  
Seq#:10; Xaa Pos. 19, 59, 107, 114, 208  
Seq#:21; N Pos. 350, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387  
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Seq#:22; Xaa Pos. 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191  
Seq#:22; Xaa Pos. 192, 193, 194  
Seq#:40; Xaa Pos. 84  
Seq#:52; Xaa Pos. 98  
Seq#:63; N Pos. 1, 100  
Seq#:64; Xaa Pos. 1, 34  
Seq#:65; N Pos. 67, 408  
Seq#:66; Xaa Pos. 23  
Seq#:71; N Pos. 67, 408  
Seq#:72; Xaa Pos. 23  
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Seq#:84; Xaa Pos. 121  
Seq#:90; Xaa Pos. 21,94  
Seq#:97; N Pos. 79  
Seq#:98; Xaa Pos. 27  
Seq#:109; N Pos. 44,68,145,163,173,335,342,351,367,801,864,865,867,868,871  
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Seq#:124; Xaa Pos. 41,54  
Seq#:130; Xaa Pos. 73  
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Seq#:149; N Pos. 1039  
Seq#:150; Xaa Pos. 270,271,293,339,348  
Seq#:168; Xaa Pos. 20,27,174,177,183  
Seq#:184; Xaa Pos. 5  
Seq#:190; Xaa Pos. 10,12,13  
Seq#:196; Xaa Pos. 8,9,11,83,84,88  
Seq#:214; Xaa Pos. 18  
Seq#:232; Xaa Pos. 99,121  
Seq#:234; Xaa Pos. 24  
Seq#:250; Xaa Pos. 176  
Seq#:255; N Pos. 4,5  
Seq#:256; Xaa Pos. 2,179

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/15/2006  
PATENT APPLICATION: US/09/674,546B TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

Seq#:261; N Pos. 78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96  
Seq#:261; N Pos. 97,98,99,100,101,102,103,104,113  
Seq#:262; Xaa Pos. 9,27,28,29,30,31,32,33,34,35,200  
Seq#:264; Xaa Pos. 201  
Seq#:274; Xaa Pos. 149,160,339,354,359,361,364,380  
Seq#:279; N Pos. 688,689,690,691,692,693,694,695,696,697,698,699,700,701  
Seq#:279; N Pos. 702,703,704,705,706,707,708,709,710,711,712,713,714,715  
Seq#:279; N Pos. 716,717,718,719,720,721,722,723,724,725,726,727,728,729  
Seq#:279; N Pos. 730,731,732,733,734,735,736,737,738,739,740,741,742,743  
Seq#:279; N Pos. 744,745,746,747,748,749,750,751,752,753  
Seq#:280; Xaa Pos. 9,10,116,230,231,232,233,234,235,236,237,238,239,240,241  
Seq#:280; Xaa Pos. 242,243,244,245,246,247,248,249,250,251  
Seq#:285; N Pos. 29,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66  
Seq#:285; N Pos. 67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85  
Seq#:285; N Pos. 86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103  
Seq#:285; N Pos. 104,105,106,107,108,109,110,111,112,113,114,115,116,117  
Seq#:285; N Pos. 118,119,120,121,122,123,124,125,126,127,128,129,130,131  
Seq#:285; N Pos. 132,133,134,135,136,137,138,139,140,141,142,143,144,145  
Seq#:285; N Pos. 146,147,148,149,150,151,152,153,154,155,156,157,158,159  
Seq#:285; N Pos. 160,161,162,163,164,165,166,167,168,169,170,171,172,173  
Seq#:285; N Pos. 174,175,176,177,178,179,180,181,182,183,184,185,186,187  
Seq#:285; N Pos. 188,189,190,191,192,193,194,195,196,197,198,199,200,201  
Seq#:285; N Pos. 202,203,204,205,206,207,208,209,210,211,212,213,214,215  
Seq#:285; N Pos. 216,217,218,219,220,221,222,223,224,225,226,227,228,229  
Seq#:285; N Pos. 230,231,232,233,234,235,236,237,238,239,240,241,242,243  
Seq#:285; N Pos. 244,245,246,247,248,249,250,251,252,253,254,255,256,257  
Seq#:285; N Pos. 258,259,260,261,262,263,264,265,266,267,268,269,270,271  
Seq#:285; N Pos. 272,273,274,275,276,277,278,279,280,281,282,283,284,285  
Seq#:285; N Pos. 286,287,288,289,290,291,292,293,294,295,296,297,298,299  
Seq#:285; N Pos. 300,301,302,303,304,305,306,307,308,309,310,311,312,313  
Seq#:285; N Pos. 314,315,316,317,318,319,320,321,322,323,324,325,326,327  
Seq#:285; N Pos. 328,329,330,331,332,333,334,335,336,337,338,339,340,341  
Seq#:285; N Pos. 342,343,344,345,346,347,348,349,350,351,352,353,354,355  
Seq#:285; N Pos. 356,357,358,359,360,361,362,363,364,365,366,367,368,369  
Seq#:285; N Pos. 370,371,372,373,374,375,376,377,378,379,380,381,382,383  
Seq#:285; N Pos. 384,385,386,387,388,389,390,391,392,393,394,395,396,397  
Seq#:285; N Pos. 398,399,400,401,402,403,404,405,406,407,408,409,410,411  
Seq#:285; N Pos. 412,413,414,415,416,417,418,419,420,421,422,423,424,425  
Seq#:285; N Pos. 426,427,428,429,430,431,432,433,434,435,436,437,438,439  
Seq#:285; N Pos. 440,441,442,443,444,445,446,447,448,449,450,451,452,453  
Seq#:285; N Pos. 454,455,456,457,458,459,460,461,462,463,464,465,466,467  
Seq#:285; N Pos. 468,469,470,471,472,473,474,475,476,477,478,479,480,481  
Seq#:285; N Pos. 482,483,484,485,486,487,488,489,490,491,492,493,494,495  
Seq#:285; N Pos. 496,497,498,499,500,501,502,503,504,505,506,507,508,509  
Seq#:285; N Pos. 510,511,512,513  
Seq#:286; Xaa Pos. 361,366  
Seq#:292; Xaa Pos. 7,79  
Seq#:296; Xaa Pos. 111,114  
Seq#:298; Xaa Pos. 114

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/15/2006  
PATENT APPLICATION: US/09/674,546B TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

Seq#:300; Xaa Pos. 114  
Seq#:318; Xaa Pos. 70,170  
Seq#:320; Xaa Pos. 170  
Seq#:330; Xaa Pos. 120  
Seq#:336; Xaa Pos. 108  
Seq#:338; Xaa Pos. 108  
Seq#:342; Xaa Pos. 45  
Seq#:361; N Pos. 55,206,736,796,991,1038,1092,1183,1200  
Seq#:362; Xaa Pos. 19,69,246,266,331,395,400  
Seq#:366; Xaa Pos. 90,144,174,187,188,229,230  
Seq#:371; N Pos. 565  
Seq#:372; Xaa Pos. 189  
Seq#:378; Xaa Pos. 37  
Seq#:393; N Pos. 280,302,311  
Seq#:396; Xaa Pos. 46,64,74,77  
Seq#:408; Xaa Pos. 53,82,112  
Seq#:414; Xaa Pos. 388,389,390,401  
Seq#:432; Xaa Pos. 33  
Seq#:437; N Pos. 364,365,366,367,368,369,370,371,372,373,374,375,376,377  
Seq#:437; N Pos. 378,379,380,381,382,383,384,385,386,387,388,389,390,391  
Seq#:437; N Pos. 392,393,394,395,396,397,398,399,400,401,402,403,404,405  
Seq#:437; N Pos. 406,407,408,409,410,411,412,413,414,415,416,417,418,419  
Seq#:437; N Pos. 420,421,422,423,424,425,426,427,428,429,430,431,432,433  
Seq#:437; N Pos. 434,435,436,437,438,439,440,441,442,443,444,445,446,447  
Seq#:437; N Pos. 448,449,450,451,452,453,454,455,456,457,458,459,460,461  
Seq#:437; N Pos. 462,463,464,465,466,467,468,469,470,471,472,473,474,475  
Seq#:437; N Pos. 476,477,478,479,480,481,482,483,484,485,486,487,488,489  
Seq#:437; N Pos. 490,491,492,493,494,495,496,497,498,499,500,501,502,503  
Seq#:437; N Pos. 504,505,506,507,508,509,510,511,512,513,514,515,516,517  
Seq#:437; N Pos. 518,519,520,521,522,523,524,525,526,527,528,529,530,531  
Seq#:437; N Pos. 532,533,534,535,536,537,538,539,540,541,542,543,544,545  
Seq#:437; N Pos. 546,547,548,549,550,551,552,553,554,555,556,557,558,559  
Seq#:437; N Pos. 560,561,562,563,564,565,566,567,568,569,570,571,572,573  
Seq#:437; N Pos. 574,575,576,577,578,579,580,581,582,583,584,585,586,587  
Seq#:437; N Pos. 588,589,590,591,592,593,594,595,596,597,598,599,600,601  
Seq#:437; N Pos. 602,603,604,605,606,995,1082  
Seq#:438; Xaa Pos. 122,123,124,125,126,127,128,129,130,131,132,133,134,135  
Seq#:438; Xaa Pos. 136,137,138,139,140,141,142,143,144,145,146,147,148,149  
Seq#:438; Xaa Pos. 150,151,152,153,154,155,156,157,158,159,160,161,162,163  
Seq#:438; Xaa Pos. 164,165,166,167,168,169,170,171,172,173,174,175,176,177  
Seq#:438; Xaa Pos. 178,179,180,181,182,183,184,185,186,187,188,189,190,191  
Seq#:438; Xaa Pos. 192,193,194,195,196,197,198,199,200,201,202,332,361  
Seq#:441; N Pos. 995,1082  
Seq#:442; Xaa Pos. 332,361  
Seq#:448; Xaa Pos. 89,187,215,220  
Seq#:460; Xaa Pos. 254,297  
Seq#:462; Xaa Pos. 330  
Seq#:478; Xaa Pos. 220  
Seq#:483; N Pos. 1216,1334,1347

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/15/2006  
PATENT APPLICATION: US/09/674,546B TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

Seq#:484; Xaa Pos. 149,158,167,190,198,289,313,328,331,339,343,347,406,445  
Seq#:496; Xaa Pos. 69,86,95  
Seq#:502; Xaa Pos. 31,179  
Seq#:546; Xaa Pos. 113,164  
Seq#:576; Xaa Pos. 134  
Seq#:623; N Pos. 488  
Seq#:624; Xaa Pos. 163  
Seq#:641; N Pos. 386,395,456,799,800,801,803,805,1224,1226  
Seq#:642; Xaa Pos. 129,132,152,199,267,268,269,409  
Seq#:670; Xaa Pos. 64  
Seq#:691; N Pos. 1169,1187,1280  
Seq#:692; Xaa Pos. 390,396,427  
Seq#:700; Xaa Pos. 158,165,175,176,177,182  
Seq#:706; Xaa Pos. 3,5,15,22  
Seq#:718; Xaa Pos. 116  
Seq#:730; Xaa Pos. 138  
Seq#:736; Xaa Pos. 501,502,507,514  
Seq#:744; Xaa Pos. 73  
Seq#:754; Xaa Pos. 153  
Seq#:760; Xaa Pos. 32,94  
Seq#:766; Xaa Pos. 33,147,163,182,197  
Seq#:771; N Pos. 568  
Seq#:772; Xaa Pos. 77,190  
Seq#:774; Xaa Pos. 190  
Seq#:777; N Pos. 135  
Seq#:778; Xaa Pos. 23,35  
Seq#:780; Xaa Pos. 44  
Seq#:782; Xaa Pos. 24  
Seq#:784; Xaa Pos. 2,6,90  
Seq#:790; Xaa Pos. 66  
Seq#:793; N Pos. 250  
Seq#:794; Xaa Pos. 84  
Seq#:796; Xaa Pos. 13  
Seq#:797; N Pos. 160,247,277,656  
Seq#:798; Xaa Pos. 54,83,93,219  
Seq#:799; N Pos. 250  
Seq#:800; Xaa Pos. 84  
Seq#:803; N Pos. 160,247,277,656  
Seq#:804; Xaa Pos. 54,83,93,219  
Seq#:814; Xaa Pos. 3  
Seq#:824; Xaa Pos. 21,83  
Seq#:826; Xaa Pos. 27  
Seq#:843; N Pos. 113  
Seq#:844; Xaa Pos. 38  
Seq#:854; Xaa Pos. 143,182  
Seq#:867; N Pos. 83,84,113  
Seq#:868; Xaa Pos. 28,38  
Seq#:878; Xaa Pos. 55,60,123,131  
Seq#:883; N Pos. 821

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/674,546B

DATE: 05/15/2006  
TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

Seq#:884; Xaa Pos. 174,274,378  
Seq#:896; Xaa Pos. 7,12  
Seq#:902; Xaa Pos. 118,159  
Seq#:921; N Pos. 80  
Seq#:922; Xaa Pos. 27  
Seq#:926; Xaa Pos. 21,53  
Seq#:932; Xaa Pos. 256,258,273  
Seq#:938; Xaa Pos. 256,258  
Seq#:944; Xaa Pos. 113  
Seq#:950; Xaa Pos. 1,9,10  
Seq#:951; N Pos. 893  
Seq#:952; Xaa Pos. 298  
Seq#:962; Xaa Pos. 11,17,18,33,42,47,48,49,78,125,148  
Seq#:969; N Pos. 130,131,132,133,134,135,136,137,138,139,140,141,142,143  
Seq#:969; N Pos. 144,145,146,147,148,149,150,151,152,153,154,155,156,157  
Seq#:969; N Pos. 158,159,160,161,162,163,164,165,166,167,168,169,170,171  
Seq#:969; N Pos. 172,173,174,175,176,177,178,179,180,181,182,183  
Seq#:970; Xaa Pos. 44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61  
Seq#:980; Xaa Pos. 91  
Seq#:1008; Xaa Pos. 31  
Seq#:1020; Xaa Pos. 7,20,60,118,126  
Seq#:1023; N Pos. 1134  
Seq#:1026; Xaa Pos. 509,511  
Seq#:1032; Xaa Pos. 86,166,185  
Seq#:1034; Xaa Pos. 185  
Seq#:1044; Xaa Pos. 86,87,90  
Seq#:1046; Xaa Pos. 174  
Seq#:1056; Xaa Pos. 52,77  
Seq#:1066; Xaa Pos. 69,103  
Seq#:1068; Xaa Pos. 76,77  
Seq#:1072; Xaa Pos. 51  
Seq#:1083; N Pos. 209  
Seq#:1084; Xaa Pos. 51,128,133  
Seq#:1100; Xaa Pos. 31  
Seq#:1106; Xaa Pos. 1,116  
Seq#:1111; N Pos. 1103  
Seq#:1112; Xaa Pos. 15,363,368  
Seq#:1115; N Pos. 368  
Seq#:1116; Xaa Pos. 123  
Seq#:1118; Xaa Pos. 162  
Seq#:1149; N Pos. 6,8,38,39,96,102,341,390,410  
Seq#:1150; Xaa Pos. 3,13,114,137  
Seq#:1232; Xaa Pos. 281  
Seq#:1256; Xaa Pos. 330,332,359,361,363,364  
Seq#:1262; Xaa Pos. 102,107,121,124  
Seq#:1268; Xaa Pos. 46,49,56,79,137  
Seq#:1275; N Pos. 131,278,513,629,645  
Seq#:1276; Xaa Pos. 44,93,171,210,215  
Seq#:1280; Xaa Pos. 181

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/15/2006  
PATENT APPLICATION: US/09/674,546B TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

Seq#:1281; N Pos. 198,275,291,312,537  
Seq#:1282; Xaa Pos. 66,92,97,104,179  
Seq#:1287; N Pos. 198,275,291,312,537  
Seq#:1288; Xaa Pos. 66,92,97,104,179  
Seq#:1291; N Pos. 240,321,322,323,324,325,326,327,328,329,330,331,332,333  
Seq#:1291; N Pos. 334,335,336,337,338,339,340,341,342,343,344,367,385  
Seq#:1292; Xaa Pos. 80,108,109,110,111,112,113,114,115,123,129  
Seq#:1304; Xaa Pos. 147,199,338  
Seq#:1321; N Pos. 47  
Seq#:1322; Xaa Pos. 16,120,121,148,178  
Seq#:1334; Xaa Pos. 4,222,233,283,400,500,520,548  
Seq#:1340; Xaa Pos. 48,51,110,120,168  
Seq#:1364; Xaa Pos. 136  
Seq#:1370; Xaa Pos. 228  
Seq#:1378; Xaa Pos. 82,93,94,98,132,213,214  
Seq#:1379; N Pos. 1382  
Seq#:1380; Xaa Pos. 461,473  
Seq#:1384; Xaa Pos. 25,126  
Seq#:1390; Xaa Pos. 65  
Seq#:1396; Xaa Pos. 308,389,565  
Seq#:1398; Xaa Pos. 507,561  
Seq#:1401; N Pos. 24  
Seq#:1402; Xaa Pos. 103,106  
Seq#:1404; Xaa Pos. 101  
Seq#:1415; N Pos. 79  
Seq#:1416; Xaa Pos. 27  
Seq#:1420; Xaa Pos. 167,246,248,259,299,300  
Seq#:1421; N Pos. 775,776,777,778  
Seq#:1422; Xaa Pos. 259,260  
Seq#:1438; Xaa Pos. 54  
Seq#:1444; Xaa Pos. 89  
Seq#:1446; Xaa Pos. 90  
Seq#:1462; Xaa Pos. 9,20,129,163  
Seq#:1464; Xaa Pos. 10,129  
Seq#:1474; Xaa Pos. 27,39,78,96  
Seq#:1485; N Pos. 51,122,149  
Seq#:1486; Xaa Pos. 41,50  
Seq#:1492; Xaa Pos. 8,15,18,113,144,172  
Seq#:1494; Xaa Pos. 143,173  
Seq#:1504; Xaa Pos. 46,56,69,75,77,81,82  
Seq#:1510; Xaa Pos. 94  
Seq#:1528; Xaa Pos. 1,25,28,38,54  
Seq#:1533; N Pos. 438  
Seq#:1543; N Pos. 25,35  
Seq#:1544; Xaa Pos. 9,12  
Seq#:1546; Xaa Pos. 251  
Seq#:1552; Xaa Pos. 23  
Seq#:1557; N Pos. 624,780  
Seq#:1558; Xaa Pos. 273

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/15/2006  
PATENT APPLICATION: US/09/674,546B TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

Seq#:1563; N Pos. 992  
Seq#:1564; Xaa Pos. 319  
Seq#:1582; Xaa Pos. 96,160,203,206  
Seq#:1583; N Pos. 29,44,201,202,253  
Seq#:1584; Xaa Pos. 10,15,68,85  
Seq#:1588; Xaa Pos. 2,22,33,66,79  
Seq#:1589; N Pos. 105,119,125,145,152,162,202,206  
Seq#:1590; Xaa Pos. 35,40,42,49,51,54,68,69  
Seq#:1594; Xaa Pos. 115  
Seq#:1596; Xaa Pos. 115  
Seq#:1599; N Pos. 142  
Seq#:1600; Xaa Pos. 48,147,173  
Seq#:1606; Xaa Pos. 53,79  
Seq#:1622; Xaa Pos. 163  
Seq#:1646; Xaa Pos. 90  
Seq#:1663; N Pos. 469,477  
Seq#:1664; Xaa Pos. 156,158  
Seq#:1666; Xaa Pos. 1963  
Seq#:1722; Xaa Pos. 105  
Seq#:1800; Xaa Pos. 133,149  
Seq#:1818; Xaa Pos. 460  
Seq#:1836; Xaa Pos. 111,116  
Seq#:1857; N Pos. 390  
Seq#:1858; Xaa Pos. 130  
Seq#:1898; Xaa Pos. 33,75  
Seq#:1900; Xaa Pos. 40  
Seq#:1952; Xaa Pos. 104  
Seq#:1954; Xaa Pos. 104,120  
Seq#:1961; N Pos. 960  
Seq#:1962; Xaa Pos. 320  
Seq#:1970; Xaa Pos. 16,81,161,279,317  
Seq#:1972; Xaa Pos. 160  
Seq#:1976; Xaa Pos. 159,164,277  
Seq#:1978; Xaa Pos. 159  
Seq#:1997; N Pos. 284  
Seq#:1998; Xaa Pos. 95  
Seq#:2022; Xaa Pos. 145  
Seq#:2063; N Pos. 57  
Seq#:2064; Xaa Pos. 19  
Seq#:2073; N Pos. 386,387,388,389,390,391,392,393,394,395,396,397,398,399  
Seq#:2073; N Pos. 400,401,402  
Seq#:2074; Xaa Pos. 129,130,131,132,133,134  
Seq#:2102; Xaa Pos. 436  
Seq#:2104; Xaa Pos. 436  
Seq#:2142; Xaa Pos. 272  
Seq#:2144; Xaa Pos. 169  
Seq#:2146; Xaa Pos. 168  
Seq#:2156; Xaa Pos. 163  
Seq#:2158; Xaa Pos. 163

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/15/2006  
PATENT APPLICATION: US/09/674,546B TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

Seq#:2172; Xaa Pos. 160,172  
Seq#:2182; Xaa Pos. 262  
Seq#:2246; Xaa Pos. 212  
Seq#:2248; Xaa Pos. 210  
Seq#:2259; N Pos. 188,232,351  
Seq#:2260; Xaa Pos. 63,78,117  
Seq#:2275; N Pos. 85,86,87,88,89,90,91,92,93,94,95,96  
Seq#:2276; Xaa Pos. 29,30,31,32  
Seq#:2307; N Pos. 11  
Seq#:2308; Xaa Pos. 4  
Seq#:2315; N Pos. 1062,1063  
Seq#:2316; Xaa Pos. 355  
Seq#:2335; N Pos. 430  
Seq#:2336; Xaa Pos. 144  
Seq#:2371; N Pos. 1,180,209,250,485,501,512,563,622,623,757,758,759,760,761  
Seq#:2371; N Pos. 762,765,770,772,784,898,998,1001,1049  
Seq#:2372; Xaa Pos. 1,70,84,162,171,188,208,253,254,255,257,258,262,300,333  
Seq#:2372; Xaa Pos. 334,350  
Seq#:2377; N Pos. 164,287,331,408,416  
Seq#:2378; Xaa Pos. 55,96,111,139  
Seq#:2383; N Pos. 13,45,95,96,138,237,423,432,433,434,436,446,451,453,458  
Seq#:2383; N Pos. 460,461,463,464,466,467,470,472,473,480,481,482,485,492  
Seq#:2383; N Pos. 495,500,510,526,534,591,617,618,619,632,896,899,1060,1137  
Seq#:2383; N Pos. 1265  
Seq#:2384; Xaa Pos. 5,32,141,144,145,146,149,151,153,154,155,156,157,158  
Seq#:2384; Xaa Pos. 161,162,164,165,167,176,178,206,207,211,299,300,354,422  
Seq#:2387; N Pos. 276  
Seq#:2593; N Pos. 51  
Seq#:2594; Xaa Pos. 17  
Seq#:2702; Xaa Pos. 26  
Seq#:2705; N Pos. 709  
Seq#:2706; Xaa Pos. 26,237  
Seq#:2716; Xaa Pos. 173  
Seq#:2718; Xaa Pos. 411  
Seq#:2719; N Pos. 1339,1515,1527  
Seq#:2720; Xaa Pos. 447  
Seq#:2724; Xaa Pos. 273,308,423  
Seq#:2726; Xaa Pos. 433  
Seq#:2732; Xaa Pos. 139  
Seq#:2736; Xaa Pos. 2  
Seq#:2738; Xaa Pos. 12  
Seq#:2774; Xaa Pos. 108,153  
Seq#:2780; Xaa Pos. 16  
Seq#:2796; Xaa Pos. 112  
Seq#:2798; Xaa Pos. 109,208,209,228  
Seq#:2822; Xaa Pos. 142  
Seq#:2824; Xaa Pos. 122,159  
Seq#:2840; Xaa Pos. 115,213  
Seq#:2842; Xaa Pos. 215

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/15/2006  
PATENT APPLICATION: US/09/674,546B TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

Seq#:2848; Xaa Pos. 246  
Seq#:2860; Xaa Pos. 129,130  
Seq#:2867; N Pos. 528  
Seq#:2868; Xaa Pos. 53,135,145,177  
Seq#:2870; Xaa Pos. 76  
Seq#:2913; N Pos. 497  
Seq#:2914; Xaa Pos. 166  
Seq#:2946; Xaa Pos. 12,125  
Seq#:2952; Xaa Pos. 224  
Seq#:2971; N Pos. 363,652  
Seq#:2972; Xaa Pos. 218  
Seq#:2983; N Pos. 504  
Seq#:2984; Xaa Pos. 168  
Seq#:3044; N Pos. 6,8,38,39,96,102,341,390,410  
Seq#:3045; Xaa Pos. 3,13,114,137  
Seq#:3076; N Pos. 752,839  
Seq#:3077; Xaa Pos. 122,123,124,125,126,127,128,129,130,131,132,133,134,135  
Seq#:3077; Xaa Pos. 136,137,138,139,140,141,142,143,144,145,146,147,148,149  
Seq#:3077; Xaa Pos. 150,151,152,153,154,155,156,157,158,159,160,161,162,163  
Seq#:3077; Xaa Pos. 164,165,166,167,168,169,170,171,172,173,174,175,176,177  
Seq#:3077; Xaa Pos. 178,179,180,181,182,183,184,185,186,187,188,189,190,191  
Seq#:3077; Xaa Pos. 192,193,194,195,196,197,198,199,200,201,202,332,361  
Seq#:3082; N Pos. 995,1082  
Seq#:3083; Xaa Pos. 332,361  
Seq#:3086; N Pos. 1216,1334,1347  
Seq#:3087; Xaa Pos. 99,108,117,140,148,239,263,278,281,289,293,297,356,395  
Seq#:3099; Xaa Pos. 116  
Seq#:3246; N Pos. 224,289  
Seq#:3247; Xaa Pos. 74,96  
Seq#:3248; N Pos. 741  
Seq#:3249; Xaa Pos. 247  
Seq#:3257; Xaa Pos. 6,11,65,76  
Seq#:3263; Xaa Pos. 36

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/674,546B

DATE: 05/15/2006

TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt

Output Set: N:\CRF4\05152006\I674546B.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16  
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:480  
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16  
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:48  
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:96  
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:112  
L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:192  
L:1037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:300  
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:360  
L:1041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:420  
L:1043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:480  
L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:540  
L:1107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:48  
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:96  
L:1123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:112  
L:1127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:128  
L:1131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:144  
L:1135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:160  
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:176  
L:1143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:192  
L:1999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:80  
L:2382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:96  
L:2800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0  
L:2802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:60  
L:2843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0  
L:2851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:32  
L:2914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:60  
L:2924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:360  
L:2990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:16  
L:3536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:60  
L:3546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:360  
L:3612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:16  
L:4033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:300  
L:4035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:360  
L:4037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:420  
L:4039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:480  
L:4041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:540  
L:4088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:96  
L:4092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:112  
L:4096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:128  
L:4100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:144  
L:4104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:160  
L:4108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:176  
L:4284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:112  
L:4501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:16  
L:4517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:80  
L:4701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:60

## VERIFICATION SUMMARY

DATE: 05/15/2006

PATENT APPLICATION: US/09/674,546B

TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
 Output Set: N:\CRF4\05152006\I674546B.raw

L:4732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:16  
 L:5435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0  
 L:5437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:60  
 L:5439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:120  
 L:5445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:300  
 L:5447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:360  
 L:5461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:780  
 L:5463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:840  
 L:5465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:900  
 L:5467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:960  
 L:5469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:1020  
 L:5471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:1080  
 L:5475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:1200  
 L:5479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:1320  
 L:5616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:0  
 L:5620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:16  
 L:5629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:48  
 L:5641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:96  
 L:5645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:112  
 L:5681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:256  
 L:5689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:288  
 L:5693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:304  
 L:5697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:320  
 L:5701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:336  
 L:5705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:352  
 L:5709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:368  
 L:5717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:400  
 L:5729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:448  
 L:5911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:240  
 L:5949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:80  
 L:6484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:32  
 L:6488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:48  
 L:6868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:64  
 L:7497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:120  
 L:7499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:180  
 L:7533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:32  
 L:7537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:48  
 L:7541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:64  
 L:7624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:64  
 L:7869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:1020  
 L:7971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:256  
 L:7979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:288  
 L:7991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:336  
 L:9299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:168 after pos.:16  
 L:9336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:168 after pos.:160  
 L:9340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:168 after pos.:176  
 L:9857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:0  
 L:10057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:190 after pos.:0  
 L:10382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:196 after pos.:0

## VERIFICATION SUMMARY

DATE: 05/15/2006

PATENT APPLICATION: US/09/674,546B

TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
 Output Set: N:\CRF4\05152006\I674546B.raw

L:10402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:196 after pos.:80  
 L:11088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:214 after pos.:16  
 L:12069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:96  
 L:12073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:112  
 L:12115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234 after pos.:16  
 L:12945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:250 after pos.:160  
 L:13313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:0  
 L:13358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:0  
 L:13402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:176  
 L:13646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:261 after pos.:60  
 L:13693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:262 after pos.:0  
 L:13697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:262 after pos.:16  
 L:13701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:262 after pos.:32  
 L:13741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:262 after pos.:192  
 L:13845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264 after pos.:192  
 L:14286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274 after pos.:144  
 L:14334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274 after pos.:336  
 L:14338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274 after pos.:352  
 L:14342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274 after pos.:368  
 L:14681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:279 after pos.:660  
 L:14683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:279 after pos.:720  
 L:14717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280 after pos.:0  
 L:14745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280 after pos.:112  
 L:14773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280 after pos.:224  
 L:14777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280 after pos.:240  
 L:15108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:0  
 L:15110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:60  
 L:15112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:120  
 L:15114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:180  
 L:15116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:240  
 L:15118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:300  
 L:15120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:360  
 L:15122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:420  
 L:15124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:480  
 L:15253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:286 after pos.:352  
 L:15521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:0  
 L:15537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:64  
 L:15695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296 after pos.:96  
 L:15699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296 after pos.:112  
 L:15763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298 after pos.:112  
 L:15828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:300 after pos.:112  
 L:16930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318 after pos.:64  
 L:16954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318 after pos.:160  
 L:17074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:320 after pos.:160  
 L:17391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:330 after pos.:112  
 L:17573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:336 after pos.:96  
 L:17639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:338 after pos.:96  
 L:17889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:342 after pos.:32  
 L:19435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:0

## VERIFICATION SUMMARY

DATE: 05/15/2006

PATENT APPLICATION: US/09/674,546B

TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

L:19441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:180  
L:19459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:720  
L:19461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:780  
L:19467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:960  
L:19469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:1020  
L:19471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:1080  
L:19473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:1140  
L:19525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:16  
L:19537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:64  
L:19581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:240  
L:19585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:256  
L:19601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:320  
L:19618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:384  
L:19836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:80  
L:19848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:128  
L:19856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:160  
L:19860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:176  
L:19872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:224  
L:20158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:371 after pos.:540  
L:20228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:372 after pos.:176  
L:20504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:378 after pos.:32  
L:21087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:393 after pos.:240  
L:21089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:393 after pos.:300  
L:21212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:396 after pos.:32  
L:21216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:396 after pos.:48  
L:21220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:396 after pos.:64  
L:21970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:408 after pos.:48  
L:21978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:408 after pos.:80  
L:21982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:408 after pos.:96  
L:22483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:414 after pos.:384  
L:22487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:414 after pos.:400  
L:23918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:432 after pos.:32  
L:24239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:360  
L:24241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:420  
L:24243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:480  
L:24245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:540  
L:24247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:600  
L:24259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:960  
L:24263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:1080  
L:24317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:112  
L:24321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:128  
L:24325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:144  
L:24329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:160  
L:24333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:176  
L:24337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:192  
L:24369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:320  
L:24377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:352  
L:24576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:441 after pos.:960  
L:24581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:441 after pos.:1080

## VERIFICATION SUMMARY

DATE: 05/15/2006

PATENT APPLICATION: US/09/674,546B

TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
 Output Set: N:\CRF4\05152006\I674546B.raw

L:24682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:442 after pos.:320  
 L:24690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:442 after pos.:352  
 L:25024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:448 after pos.:80  
 L:25048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:448 after pos.:176  
 L:25057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:448 after pos.:208  
 L:25663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:460 after pos.:240  
 L:25675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:460 after pos.:288  
 L:25828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:462 after pos.:320  
 L:26728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:478 after pos.:208  
 L:27189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:483 after pos.:1200  
 L:27193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:483 after pos.:1320  
 L:27313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:144  
 L:27317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:160  
 L:27321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:176  
 L:27325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:192  
 L:27349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:288  
 L:27353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:304  
 L:27357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:320  
 L:27361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:336  
 L:27377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:400  
 L:27385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:484 after pos.:432  
 L:28486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:496 after pos.:64  
 L:28490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:496 after pos.:80  
 L:28717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:502 after pos.:16  
 L:28757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:502 after pos.:176  
 L:31309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:546 after pos.:112  
 L:31321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:546 after pos.:160  
 L:33509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:576 after pos.:128  
 L:37464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:623 after pos.:480  
 L:37524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:624 after pos.:160  
 L:39052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:641 after pos.:360  
 L:39054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:641 after pos.:420  
 L:39067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:641 after pos.:780  
 L:39081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:641 after pos.:1200  
 L:39165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642 after pos.:128  
 L:39169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642 after pos.:144  
 L:39181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642 after pos.:192  
 L:39197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642 after pos.:256  
 L:39233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:642 after pos.:400  
 L:40620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:670 after pos.:48  
 L:42659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:691 after pos.:1140  
 L:42663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:691 after pos.:1260  
 L:42787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:692 after pos.:384  
 L:42795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:692 after pos.:416  
 L:43381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:700 after pos.:144  
 L:43385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:700 after pos.:160  
 L:43389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:700 after pos.:176  
 L:43617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:706 after pos.:0  
 L:43621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:706 after pos.:16

VERIFICATION SUMMARY DATE: 05/15/2006  
PATENT APPLICATION: US/09/674,546B TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

L:44079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:718 after pos.:112  
L:44714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:730 after pos.:128  
L:45178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:736 after pos.:496  
L:45182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:736 after pos.:512  
L:45611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:744 after pos.:64  
L:46038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:754 after pos.:144  
L:46266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:760 after pos.:16  
L:46282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:760 after pos.:80  
L:46648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:766 after pos.:32  
L:46676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:766 after pos.:144  
L:46680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:766 after pos.:160  
L:46684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:766 after pos.:176  
L:46688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:766 after pos.:192  
L:46916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:771 after pos.:540  
L:46955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:772 after pos.:64  
L:46983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:772 after pos.:176  
L:47082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:774 after pos.:176  
L:47202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:777 after pos.:120  
L:47243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:778 after pos.:16  
L:47247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:778 after pos.:32  
L:47345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:780 after pos.:32  
L:47438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:782 after pos.:16  
L:47530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:784 after pos.:0  
L:47550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:784 after pos.:80  
L:47756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:790 after pos.:64  
L:47850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:793 after pos.:240  
L:47900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:794 after pos.:80  
L:47984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:796 after pos.:0  
L:48079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:797 after pos.:120  
L:48083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:797 after pos.:240  
L:48095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:797 after pos.:600  
L:48146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:798 after pos.:48  
L:48154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:798 after pos.:80  
L:48186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:798 after pos.:208  
L:48226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:799 after pos.:240  
L:48276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:800 after pos.:80  
L:48447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:803 after pos.:120  
L:48451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:803 after pos.:240  
L:48463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:803 after pos.:600  
L:48514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:804 after pos.:48  
L:48522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:804 after pos.:80  
L:48555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:804 after pos.:208  
L:48949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:814 after pos.:0  
L:49270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:824 after pos.:16  
L:49286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:824 after pos.:80  
L:49351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:826 after pos.:16  
L:50622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:843 after pos.:60  
L:50674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:844 after pos.:32  
L:51299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:854 after pos.:128

## VERIFICATION SUMMARY

DATE: 05/15/2006

PATENT APPLICATION: US/09/674,546B

TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
 Output Set: N:\CRF4\05152006\I674546B.raw

L:51311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:854 after pos.:176  
 L:51928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:867 after pos.:60  
 L:51964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:868 after pos.:16  
 L:51968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:868 after pos.:32  
 L:52484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:878 after pos.:48  
 L:52501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:878 after pos.:112  
 L:52505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:878 after pos.:128  
 L:52869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:883 after pos.:780  
 L:52947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:884 after pos.:160  
 L:52975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:884 after pos.:272  
 L:53000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:884 after pos.:368  
 L:53848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:896 after pos.:0  
 L:54186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:902 after pos.:112  
 L:54194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:902 after pos.:144  
 L:55183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:921 after pos.:60  
 L:55229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:922 after pos.:16  
 L:55396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:926 after pos.:16  
 L:55405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:926 after pos.:48  
 L:55708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:932 after pos.:210  
 L:55712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:932 after pos.:256  
 L:55716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:932 after pos.:272  
 L:56062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:938 after pos.:240  
 L:56066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:938 after pos.:256  
 L:56326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:944 after pos.:112  
 L:56597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:950 after pos.:0  
 L:56697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:951 after pos.:840  
 L:56789 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:952 after pos.:288  
 L:57277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:0  
 L:57281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:16  
 L:57285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:32  
 L:57289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:48  
 L:57293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:64  
 L:57306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:112  
 L:57314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:962 after pos.:144  
 L:57604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:969 after pos.:120  
 L:57606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:969 after pos.:180  
 L:57644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:970 after pos.:32  
 L:57648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:970 after pos.:48  
 L:58028 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:980 after pos.:80  
 L:59503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1008 after pos.:16  
 L:60150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1020 after pos.:0  
 L:60154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1020 after pos.:16  
 L:60162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1020 after pos.:48  
 L:60178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1020 after pos.:112  
 L:60290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1023 after pos.:1080  
 L:60614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1026 after pos.:496  
 L:61069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1032 after pos.:80  
 L:61089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1032 after pos.:160  
 L:61093 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1032 after pos.:176

## VERIFICATION SUMMARY

DATE: 05/15/2006

PATENT APPLICATION: US/09/674,546B

TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
 Output Set: N:\CRF4\05152006\I674546B.raw

L:61192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1034 after pos.:176  
 L:61618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1044 after pos.:80  
 L:61722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1046 after pos.:160  
 L:62158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1056 after pos.:48  
 L:62162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1056 after pos.:64  
 L:62598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1066 after pos.:64  
 L:62606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1066 after pos.:96  
 L:62664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1068 after pos.:64  
 L:62785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1072 after pos.:48  
 L:63200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1083 after pos.:180  
 L:63246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1084 after pos.:48  
 L:63262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1084 after pos.:112  
 L:63266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1084 after pos.:128  
 L:63764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1100 after pos.:16  
 L:63990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1106 after pos.:0  
 L:64018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1106 after pos.:112  
 L:64317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1111 after pos.:1080  
 L:64343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1112 after pos.:0  
 L:64431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1112 after pos.:352  
 L:64612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1115 after pos.:360  
 L:64660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1116 after pos.:112  
 L:64754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1118 after pos.:160  
 L:66159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1149 after pos.:0  
 L:66161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1149 after pos.:60  
 L:66169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1149 after pos.:300  
 L:66171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1149 after pos.:360  
 L:66205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1150 after pos.:0  
 L:66233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1150 after pos.:112  
 L:66237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1150 after pos.:128  
 L:73722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1232 after pos.:272  
 L:75577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1256 after pos.:320  
 L:75585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1256 after pos.:352  
 L:76036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1262 after pos.:96  
 L:76040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1262 after pos.:112  
 L:76376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1268 after pos.:32  
 L:76380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1268 after pos.:48  
 L:76384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1268 after pos.:64  
 L:76400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1268 after pos.:128  
 L:76724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:120  
 L:76728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:240  
 L:76736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:480  
 L:76740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1275 after pos.:600  
 L:76792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1276 after pos.:32  
 L:76804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1276 after pos.:80  
 L:76824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1276 after pos.:160  
 L:76836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1276 after pos.:208  
 L:77043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1280 after pos.:176  
 L:77097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1281 after pos.:180  
 L:77099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1281 after pos.:240

**VERIFICATION SUMMARY**  
 PATENT APPLICATION: US/09/674,546B

DATE: 05/15/2006  
 TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
 Output Set: N:\CRF4\05152006\I674546B.raw

L:77101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1281 after pos.:300  
 L:77107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1281 after pos.:480  
 L:77166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1282 after pos.:64  
 L:77170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1282 after pos.:80  
 L:77174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1282 after pos.:96  
 L:77194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1282 after pos.:176  
 L:77444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:180  
 L:77446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:240  
 L:77448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:300  
 L:77454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1287 after pos.:480  
 L:77513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1288 after pos.:64  
 L:77517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1288 after pos.:80  
 L:77521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1288 after pos.:96  
 L:77542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1288 after pos.:176  
 L:77768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1291 after pos.:180  
 L:77772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1291 after pos.:300  
 L:77774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1291 after pos.:360  
 L:77847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1292 after pos.:64  
 L:77856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1292 after pos.:96  
 L:77860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1292 after pos.:112  
 L:77864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1292 after pos.:128  
 L:79065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1304 after pos.:144  
 L:79077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1304 after pos.:192  
 L:79113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1304 after pos.:336  
 L:80017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1321 after pos.:0  
 L:80096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1322 after pos.:0  
 L:80124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1322 after pos.:112  
 L:80132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1322 after pos.:144  
 L:80140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1322 after pos.:176  
 L:81124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:0  
 L:81176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:208  
 L:81180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:224  
 L:81192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:272  
 L:81220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:384  
 L:81249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:496  
 L:81253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:512  
 L:81261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1334 after pos.:544  
 L:81618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1340 after pos.:32  
 L:81622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1340 after pos.:48  
 L:81634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1340 after pos.:96  
 L:81638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1340 after pos.:112  
 L:81650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1340 after pos.:160  
 L:82592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1364 after pos.:128  
 L:83062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1370 after pos.:224  
 L:83627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1378 after pos.:80  
 L:83631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1378 after pos.:96  
 L:83639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1378 after pos.:128  
 L:83659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1378 after pos.:208  
 L:83799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1379 after pos.:1380

**VERIFICATION SUMMARY**  
**PATENT APPLICATION: US/09/674,546B**

**DATE: 05/15/2006**  
**TIME: 15:42:26**

**Input Set : E:\SEQLIST223002101200.txt**  
**Output Set: N:\CRF4\05152006\I674546B.raw**

L:83938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1380 after pos.:448  
L:83942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1380 after pos.:464  
L:84089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1384 after pos.:16  
L:84113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1384 after pos.:112  
L:84346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1390 after pos.:64  
L:84830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1396 after pos.:304  
L:84850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1396 after pos.:384  
L:84894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1396 after pos.:560  
L:85106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1398 after pos.:496  
L:85122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1398 after pos.:560  
L:85202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1401 after pos.:0  
L:85259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1402 after pos.:96  
L:85329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1404 after pos.:96  
L:85808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1415 after pos.:60  
L:85872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1416 after pos.:16  
L:86243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1420 after pos.:160  
L:86263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1420 after pos.:240  
L:86267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1420 after pos.:256  
L:86275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1420 after pos.:288  
L:86319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1421 after pos.:720  
L:86409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1422 after pos.:256  
L:87255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1438 after pos.:48  
L:87476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1444 after pos.:80  
L:87544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:80  
L:88415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1462 after pos.:0  
L:88419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1462 after pos.:16  
L:88447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1462 after pos.:128  
L:88455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1462 after pos.:160  
L:88513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1464 after pos.:0  
L:88545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1464 after pos.:128  
L:88927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1474 after pos.:16  
L:88931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1474 after pos.:32  
L:88939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1474 after pos.:64  
L:88943 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1474 after pos.:80  
L:89330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1485 after pos.:0  
L:89334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1485 after pos.:120  
L:89371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1486 after pos.:32  
L:89375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1486 after pos.:48  
L:89607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1492 after pos.:0  
L:89611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1492 after pos.:16  
L:89635 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1492 after pos.:112  
L:89639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1492 after pos.:128  
L:89647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1492 after pos.:160  
L:89733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1494 after pos.:128  
L:89741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1494 after pos.:160  
L:90201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1504 after pos.:32  
L:90205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1504 after pos.:48  
L:90209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1504 after pos.:64  
L:90213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1504 after pos.:80

## VERIFICATION SUMMARY

DATE: 05/15/2006

PATENT APPLICATION: US/09/674,546B

TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt

Output Set: N:\CRF4\05152006\I674546B.raw

L:90422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1510 after pos.:80  
L:91150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1528 after pos.:0  
L:91154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1528 after pos.:16  
L:91158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1528 after pos.:32  
L:91163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1528 after pos.:48  
L:91334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1533 after pos.:420  
L:91893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1543 after pos.:0  
L:91940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1544 after pos.:0  
L:92117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1546 after pos.:240  
L:92439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1552 after pos.:16  
L:92835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1557 after pos.:600  
L:92839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1557 after pos.:720  
L:92935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1558 after pos.:272  
L:93314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1563 after pos.:960  
L:93408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1564 after pos.:304  
L:94173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1582 after pos.:80  
L:94189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1582 after pos.:144  
L:94201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1582 after pos.:192  
L:94276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1583 after pos.:0  
L:94282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1583 after pos.:180  
L:94284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1583 after pos.:240  
L:94343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1584 after pos.:0  
L:94359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1584 after pos.:64  
L:94363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1584 after pos.:80  
L:94574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1588 after pos.:0  
L:94578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1588 after pos.:16  
L:94582 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1588 after pos.:32  
L:94590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1588 after pos.:64  
L:94667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1589 after pos.:60  
L:94669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1589 after pos.:120  
L:94671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1589 after pos.:180  
L:94735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1590 after pos.:32  
L:94739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1590 after pos.:48  
L:94743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1590 after pos.:64  
L:94901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1594 after pos.:112  
L:94972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1596 after pos.:112  
L:95085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1599 after pos.:120  
L:95135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1600 after pos.:32  
L:95163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1600 after pos.:144  
L:95167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1600 after pos.:160  
L:95450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1606 after pos.:48  
L:95454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1606 after pos.:64  
L:96200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1622 after pos.:160  
L:97218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1646 after pos.:80  
L:98260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1663 after pos.:420  
L:98323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1664 after pos.:144  
L:99074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1666 after pos.:1953  
L:103292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1722 after pos.:96  
L:107222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1800 after pos.:128

## VERIFICATION SUMMARY

DATE: 05/15/2006

PATENT APPLICATION: US/09/674,546B

TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

L:107226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1800 after pos.:144  
L:108332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1818 after pos.:448  
L:110175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1836 after pos.:96  
L:110179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1836 after pos.:112  
L:111800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1857 after pos.:360  
L:111867 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1858 after pos.:128  
L:114364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1898 after pos.:32  
L:114372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1898 after pos.:64  
L:114546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1900 after pos.:32  
L:117538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1952 after pos.:96  
L:117609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1954 after pos.:96  
L:117613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1954 after pos.:112  
L:117924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1961 after pos.:900  
L:118024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1962 after pos.:304  
L:118585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1970 after pos.:0  
L:118605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1970 after pos.:80  
L:118625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1970 after pos.:160  
L:118654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1970 after pos.:272  
L:113662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1970 after pos.:304  
L:118776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1972 after pos.:144  
L:119105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1976 after pos.:144  
L:119109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1976 after pos.:160  
L:119137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1976 after pos.:272  
L:119271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1978 after pos.:144  
L:120464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1997 after pos.:240  
L:120502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1998 after pos.:80  
L:121351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2022 after pos.:144  
L:123824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2063 after pos.:0  
L:123856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2064 after pos.:16  
L:124439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2073 after pos.:360  
L:124525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2074 after pos.:128  
L:125937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2102 after pos.:432  
L:126125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2104 after pos.:432  
L:128350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2142 after pos.:256  
L:128452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2144 after pos.:160  
L:128579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2146 after pos.:160  
L:129140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2156 after pos.:160  
L:129228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2158 after pos.:160  
L:131002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2172 after pos.:144  
L:131006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2172 after pos.:160  
L:131494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2182 after pos.:256  
L:134125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2246 after pos.:208  
L:134242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2248 after pos.:208  
L:134611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2259 after pos.:180  
L:134615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2259 after pos.:300  
L:134657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2260 after pos.:48  
L:134661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2260 after pos.:64  
L:134673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2260 after pos.:112  
L:135421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2275 after pos.:60

## VERIFICATION SUMMARY

DATE: 05/15/2006

PATENT APPLICATION: US/09/674,546B

TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
 Output Set: N:\CRF4\05152006\I674546B.raw

L:135455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2276 after pos.:16  
 L:137042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2307 after pos.:0  
 L:137072 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2308 after pos.:0  
 L:137559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2315 after pos.:1020  
 L:137666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2316 after pos.:352  
 L:138752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2335 after pos.:420  
 L:138816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2336 after pos.:128  
 L:140940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:0  
 L:140944 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:120  
 L:140946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:180  
 L:140948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:240  
 L:140956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:480  
 L:140958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:540  
 L:140960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:600  
 L:140964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:720  
 L:140966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:780  
 L:140968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:840  
 L:140972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:960  
 L:140974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2371 after pos.:1020  
 L:141064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:0  
 L:141080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:64  
 L:141084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:80  
 L:141104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:160  
 L:141108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:176  
 L:141112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:192  
 L:141124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:240  
 L:141128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:256  
 L:141136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:288  
 L:141145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:320  
 L:141149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2372 after pos.:336  
 L:141435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2377 after pos.:120  
 L:141439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2377 after pos.:240  
 L:141441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2377 after pos.:300  
 L:141443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2377 after pos.:360  
 L:141498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2378 after pos.:48  
 L:141506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2378 after pos.:80  
 L:141510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2378 after pos.:96  
 L:141518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2378 after pos.:128  
 L:142075 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:0  
 L:142077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:60  
 L:142079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:120  
 L:142081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:180  
 L:142089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:420  
 L:142091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:480  
 L:142093 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:540  
 L:142095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:600  
 L:142103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:840  
 L:142109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:1020  
 L:142111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:1080

## VERIFICATION SUMMARY

DATE: 05/15/2006

PATENT APPLICATION: US/09/674,546B

TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
 Output Set: N:\CRF4\05152006\I674546B.raw

L:142117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2383 after pos.:1260  
 L:142215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:0  
 L:142219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:16  
 L:142247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:128  
 L:142251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:144  
 L:142255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:160  
 L:142259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:176  
 L:142263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:192  
 L:142267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:208  
 L:142288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:288  
 L:142304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:352  
 L:142320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2384 after pos.:416  
 L:142412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2387 after pos.:240  
 L:155362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2593 after pos.:0  
 L:155401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2594 after pos.:16  
 L:163968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2702 after pos.:16  
 L:164248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2705 after pos.:660  
 L:164277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2706 after pos.:16  
 L:164329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2706 after pos.:224  
 L:165000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2716 after pos.:160  
 L:165269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2718 after pos.:400  
 L:165375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2719 after pos.:1320  
 L:165381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2719 after pos.:1500  
 L:165510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2720 after pos.:432  
 L:165856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2724 after pos.:272  
 L:165864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2724 after pos.:304  
 L:165892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2724 after pos.:416  
 L:166073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2726 after pos.:432  
 L:166266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2732 after pos.:128  
 L:166412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2736 after pos.:0  
 L:166494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2738 after pos.:0  
 L:167919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2774 after pos.:96  
 L:167931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2774 after pos.:144  
 L:168174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2780 after pos.:0  
 L:169324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2796 after pos.:96  
 L:169434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2798 after pos.:96  
 L:169458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2798 after pos.:192  
 L:169462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2798 after pos.:208  
 L:169466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2798 after pos.:224  
 L:170718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2822 after pos.:128  
 L:170797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2824 after pos.:112  
 L:170805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2824 after pos.:144  
 L:171381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2840 after pos.:112  
 L:171405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2840 after pos.:208  
 L:171515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2842 after pos.:208  
 L:171951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2848 after pos.:240  
 L:172842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2860 after pos.:128  
 L:173124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2867 after pos.:480  
 L:173171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2868 after pos.:48

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/674,546B

DATE: 05/15/2006  
TIME: 15:42:26

Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

L:173191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2868 after pos.:128  
L:173195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2868 after pos.:144  
L:173203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2868 after pos.:176  
L:173271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2870 after pos.:64  
L:175763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2913 after pos.:480  
L:175823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2914 after pos.:160  
L:178071 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2946 after pos.:0  
L:178100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2946 after pos.:112  
L:178564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2952 after pos.:208  
L:180350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2971 after pos.:360  
L:180358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2971 after pos.:600  
L:180455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2972 after pos.:208  
L:181685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2983 after pos.:480  
L:181803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2984 after pos.:160  
L:184918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3044 after pos.:0  
L:184920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3044 after pos.:60  
L:184928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3044 after pos.:300  
L:184930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3044 after pos.:360  
L:184963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3045 after pos.:0  
L:184991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3045 after pos.:112  
L:184995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3045 after pos.:128  
L:186910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3076 after pos.:720  
L:186912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3076 after pos.:780  
L:186969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:112  
L:186973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:128  
L:186977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:144  
L:186981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:160  
L:186985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:176  
L:186989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:192  
L:187021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:320  
L:187029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3077 after pos.:352  
L:187371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3082 after pos.:960  
L:187375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3082 after pos.:1080  
L:187476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3083 after pos.:320  
L:187485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3083 after pos.:352  
L:187695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3086 after pos.:1200  
L:187699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3086 after pos.:1320  
L:187806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:96  
L:187810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:112  
L:187814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:128  
L:187819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:144  
L:187839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:224  
L:187847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:256  
L:187851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:272  
L:187855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:288  
L:187871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:352  
L:187879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3087 after pos.:384  
L:189166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3099 after pos.:112  
L:201676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3246 after pos.:180

## VERIFICATION SUMMARY

DATE: 05/15/2006

PATENT APPLICATION: US/09/674,546B

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Input Set : E:\SEQLIST223002101200.txt  
Output Set: N:\CRF4\05152006\I674546B.raw

L:201678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3246 after pos.:240  
L:201747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3247 after pos.:64  
L:201751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3247 after pos.:80  
L:201872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3248 after pos.:720  
L:201952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3249 after pos.:240  
L:202212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3257 after pos.:0  
L:202228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3257 after pos.:64  
L:202635 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3263 after pos.:32